



1pw

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Gmeinder, et al.

) I hereby certify that this paper (or fee) is being  
deposited with the United States Postal  
Service, first class postage prepaid, addressed  
to: Commissioner for Patents, P.O. Box 1450,  
Alexandria, VA 22313-1450

Serial No.: 10/575,150

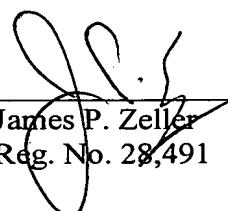
) September 28, 2006

Filed: June 07, 2006

For: Interface Unit for Dentist's or  
Dental Treatment/Workstation for  
Passing on Signals Containing Image  
Information

Group Art Unit: To be assigned

Examiner: To be assigned

  
James P. Zeller  
Reg. No. 28,491

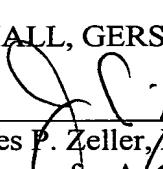
**SUBMISSION OF TRANSLATION INTERNATIONAL REPORT  
ON PATENTABILITY**

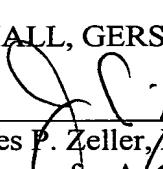
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith is an English translation of the international preliminary report on  
patentability.

Respectfully submitted,

  
MARSHALL, GERSTEIN & BORUN LLP

By: 

James P. Zeller, Reg. No. 28,491  
Attorney for Applicant  
6300 Sears Tower  
233 S. Wacker Drive  
Chicago, Illinois 60606-6357  
(312) 474-6300

September 28, 2006

From the INTERNATIONAL BUREAU

**PCT**

NOTIFICATION OF TRANSMITTAL  
OF COPIES OF TRANSLATION  
OF THE INTERNATIONAL PRELIMINARY REPORT  
ON PATENTABILITY  
(CHAPTER I OR CHAPTER II)  
OF THE PATENT COOPERATION TREATY)  
(PCT Rules 44bis.3(c) and 72.2)

Date of mailing (day/month/year)  
14 September 2006 (14.09.2006)

To:

SCHMIDT-EVERS, J.  
Mitscherlich & Partner  
Sonnenstrasse 33  
Postfach 33 06 09  
80066 München  
ALLEMAGNE

R E C E I V E D  
E R H A L T E N

20 SEP. 2006

Mitscherlich & Partner  
Patent- u. Rechtsanwälte

Applicant's or agent's file reference  
P28752/WO-SE

**IMPORTANT NOTIFICATION**

International application No.  
PCT/EP2004/011262

International filing date (day/month/year)  
08 October 2004 (08.10.2004)

Applicant

KALTENBACH &amp; VOIGT GMBH &amp; CO. KG et al

**1. Transmittal of the translation to the applicant.**

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).



The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

**2. Transmittal of the copy of the translation to the designated or elected Offices.**

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

KR

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

**3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).**

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

**It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.**

The International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

Authorized officer

Agnes Wittmann-Regis

Facsimile No. +41 22 338 82 70

Facsimile No. +41 22 338 82 70

**TRANSLATION**      **PATENT COOPERATION TREATY**  
**PCT**

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**  
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference <b>P28752/WO-SE</b>	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No. <b>PCT/EP2004/011262</b>	International filing date (day/month/year) <b>08.10.2004</b>	Priority date (day/month/year) <b>08.10.2003</b>
International Patent Classification (IPC) or national classification and IPC <b>G06F3/14, H04N7/18, A61B1/04</b>		
Applicant <b>KALTENBACH &amp; VOIGT GMBH &amp; CO. KG</b>		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of <b>6</b> sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising: <ul style="list-style-type: none"> <li>a. <input type="checkbox"/> (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows: <ul style="list-style-type: none"> <li><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</li> <li><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</li> </ul> </li> <li>b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</li> </ul>
4. This report contains indications relating to the following items: <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Box No. I Basis of the report</li> <li><input type="checkbox"/> Box No. II Priority</li> <li><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</li> <li><input type="checkbox"/> Box No. IV Lack of unity of invention</li> <li><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</li> <li><input type="checkbox"/> Box No. VI Certain documents cited</li> <li><input type="checkbox"/> Box No. VII Certain defects in the international application</li> <li><input type="checkbox"/> Box No. VIII Certain observations on the international application</li> </ul>

Date of submission of the demand	Date of completion of this report
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2004/011262

## Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
 

This report is based on translations from the original language into the following language \_\_\_\_\_ which is the language of a translation furnished for the purposes of:
 
  - international search (Rule 12.3 and 23.1(b))
  - publication of the international application (Rule 12.4)
  - international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):
 

the international application as originally filed/furnished

the description:
 

pages 1-17 as originally filed/furnished

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

the claims:
 

nos. 1-28 as originally filed/furnished

nos.\* \_\_\_\_\_ as amended (together with any statement) under Article 19

nos.\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

nos.\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

the drawings:
 

sheets 1/4-4/4 as originally filed/furnished

sheets\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

sheets\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3.  The amendments have resulted in the cancellation of:
 

the description, pages \_\_\_\_\_

the claims, nos. \_\_\_\_\_

the drawings, sheets/figs \_\_\_\_\_

the sequence listing (specify): \_\_\_\_\_

any table(s) related to sequence listing (specify): \_\_\_\_\_
4.  This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
 

the description, pages \_\_\_\_\_

the claims, nos. \_\_\_\_\_

the drawings, sheets/figs \_\_\_\_\_

the sequence listing (specify): \_\_\_\_\_

any table(s) related to sequence listing (specify): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2004/011262

Box No. V **Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

## 1. Statement

Novelty (N)	Claims	<u>8-11, 15-18, 22-28</u>	YES
	Claims	<u>1-7, 12-14, 19-21</u>	NO
Inventive step (IS)	Claims	<u>8-11, 15-18, 22-28</u>	YES
	Claims	<u>8-11, 15-18, 22-28</u>	NO
Industrial applicability (IA)	Claims	<u>1-28</u>	YES
	Claims	<u>1-28</u>	NO

## 2. Citations and explanations (Rule 70.7)

1. The present report makes reference to the following documents:

D1: DE 295 20 999 U1 (SIEMENS AG, 80333 MUENCHEN, DE) 5 September 1996 (1996-09-05)

D2: NETWORK TECHNOLOGIES INC.: "Veemux-A Installation Guide", 21 April 2003 (2003-04-21), NETWORK TECHNOLOGIES INC, AURORA, OH, USA, XP002279510

D3: WO 98/15227 A (AFP IMAGING CORPORATION; THOERNBERG, BENNY) 16 April 1998 (1998-04-16)

D4: US 2002/067407 A1 (COOPER DAVID H) 6 June 2002 (2002-06-06)

D5: DE 201 15 133 U (KALTENBACH & VOIGT) 6 February 2003 (2003-02-06).

2. The present application fails to satisfy the requirements of PCT Article 33(1) because the subject matter of claims 1-7, 12-14 and 19-21 lacks novelty (PCT Article 33(2)).

/...

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2004/011262

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability:  
citations and explanations supporting such statement

2.1 Document D1 discloses (the references in parentheses are to said document) an interface unit (figure 1, object 5) for use at a dental treatment station (figure 1, object 1), which interface is provided for the relaying of signals containing image data and comprises the following features:

- two inputs for receiving input signals containing image data (page 3, line 26 to page 4, line 8);
- two outputs for transmitting output signals containing image data to one or more displays that can be connected to the interface unit (figure 1, objects 30 and 31);

the interface unit further comprises a processing unit for converting an analog video input signal (page 4, line 2; figure 1, object 8) into an output signal corresponding to a PC standard (page 4, line 19; figure 1, object 12; page 5, lines 5-21).

Document D1 further discloses an internal transmission unit for selectively relaying the input signals containing image data to the outputs (page 5, lines 5-21; page 6, line 35 to page 7, line 8: the images arriving from the video camera 8 and 9 can be displayed **selectively** on the display 12, 30 or 31).

Thus, the subject matter of the present claims 1-7 is disclosed in D1 and, in consequence, lacks novelty (PCT Article 33(2)).

Box No. V **Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

Furthermore, document D1 discloses a dental work station that comprises:

- an input device for the generation and wireless transmission of navigation or control data for activating and controlling interface unit functions (page 6, line 16 to page 7, line 8).

Thus, the subject matter of the present claims 12-14 and 19-21 is disclosed in D1 and, in consequence, lacks novelty (PCT Article 33(2)).

3. The present application fails to satisfy the requirements of PCT Article 33(1) because the subject matter of claims 8-11, 15-18 and 22-28 does not involve an inventive step (PCT Article 33(3)).
- 3.1 For a person skilled in the art, the additional features of claims 8-11 are general knowledge (PCT Article 33(3)); for example, D2 discloses an interface unit comprising multiple inputs and outputs for audio signals, each of which is assigned to the inputs and outputs for the VGA signals containing image data (figure 1, objects "AUDIO IN", "AUDIO OUT", "VIDEO 1-8" and "MONITOR 1-8").
- 3.2 The additional features in claims 15-18 are also general knowledge for a person skilled in the art

/...

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

International application No.

PCT/EP2004/011262

Box No. V	<b>Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement</b>
-----------	--

(PCT Article 33(3)); for example, D3 discloses a dental treatment station that comprises a functions unit which is connected to a server, data being exchanged between the server and devices via the function unit (page 10, lines 21 to page 12, lines 3).

Moreover, the features of claims 15-18 are disclosed in document D4 (see paragraphs 42, 48, 52, 53 and 57).

3.3 The features of claims 23-28 are known from document D5 (see figures 2a and 2b).